

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Date of Report: 07/22/99

Date Received: 07/08/99

Project: Metro Self Monitor, PO# M79543

Date Samples Extracted: 07/20/99

Date Extracts Analyzed: 07/20/99

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M79543	0.24	0.13	0.17	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

Date of Report: 07/22/99

Date Received: 07/08/99

Project: Metro Self Monitor, PO# M79543

### QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 907005-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.46	0.54	16	0-20
Copper	mg/L (ppm)	0.44	0.42	5	0-20
Nickel	mg/L (ppm)	0.49	0.55	12	0-20
Zinc	mg/L (ppm)	0.06	0.08	29a	0-20

Laboratory Code: (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.46	84	88	80-120	5
Copper	mg/L (ppm)	5	0.44	81	89	80-120	9
Nickel	mg/L (ppm)	10	0.49	89	86	80-120	3
Zinc	mg/L (ppm)	5	0.06	86	90	80-120	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	109	102	80-120	7
Copper	mg/L (ppm)	5	114	102	80-120	11
Nickel	mg/L (ppm)	10	106	106	80-120	0
Zinc	mg/L (ppm)	5	108	102	80-120	6

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

mm. 7.8.99 AI,

## SAMPLE CHAIN OF CUSTODY

Contact Gerald Thompson

Phone # 206-382-8379

FAX # 206-382-4309

Date 7-8-99

PURCHASE ORDER #

metro Self monitor

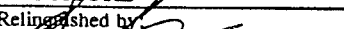

m 79543

### PROJECT LOCATION

3200 6<sup>th</sup> Ave S

### SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days  
☒ Return Samples  
☐ Call for Instructions

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD A. THOMPSON	ACW	7/8/99	1:25pm
Received by: 	SCOTT A. DUBBLE	FEB, INC.	7/8/99	1:25pm
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

July 22, 1999

DUPLICATE COPY

INVOICE #99ACU0722-2

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M79543: Results of testing requested  
by Gerry Thompson for material submitted on July 8, 1999.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

July 22, 1999

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

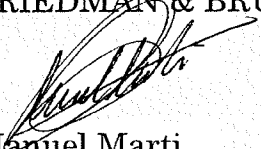
Dear Mr. Thompson:

Included are the results from the testing of material submitted on July 8, 1999 from your Metro Self Monitor, PO# M79543 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti  
Project Manager

Enclosures  
ACU0722R.DOC